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Francisco, California; referred to the Committee on Industrial Arts and Expositions.

On January 8 Senator Smoot introduced a bill for the protection of wild animals in the Grand Canyon Forest Reserve; referred to Committee on Forest Reservations and Protection of Game.

On January 9 Representative Lacey introduced a bill for the preservation of American antiquities; referred to the Committee on Public Lands.

On January 10 Senator Perkins introduced a bill for the protection of animals, birds and fish in the forest reserves; referred to the Committee on Forest Reservations and the Protection of Game.

The bill for the incorporation of the American National Institute at Paris has passed the senate.

#### SCIENTIFIC NOTES AND NEWS.

DR. WILLIAM RAINY HARPER, president of the University of Chicago, died on January 10, at the age of forty-nine years. At the funeral exercises at Chicago, on January 14, addresses were made by President Faunce, of Brown University; Chancellor Andrews, of the University of Nebraska; Dean Judson, of the University of Chicago, and Dr. Lyman Abbott, of New York City. It is intended to bury the body ultimately in a memorial chapel and crypt to be built on the university grounds. Memorial exercises were also held at Columbia University, addresses being made by President Butler, President Wilson, of Princeton University, and President Hall, of the Union Theological Seminary.

PROFESSOR J. P. IDDINGS, of the University of Chicago, was elected president of the Geological Society of America at the recent Ottawa meeting.

DR. N. L. BRITTON, director of the New York Botanical Garden, has been elected president of the New York Academy of Sciences.

DR. A. L. KROEBER, of the University of California, has been elected president of the American Folk-lore Society.

PROFESSOR HENRY M. HOWE, head of the department of metallurgy in Columbia Uni-

versity, has been elected a foreign member of the Swedish Royal Academy of Sciences. The other Americans holding this honor are Professor Simon Newcomb, Dr. Samuel Pierpont Langley, President Charles R. van Hise, Dr. Alexander Agassiz and Mr. Thomas A. Edison.

DR. BURTON E. LIVINGSTON has resigned his position in charge of the Division of Soil Fertility of the Bureau of Soils, U. S. Department of Agriculture, to accept a place on the staff of the Desert Botanical Laboratory of the Carnegie Institution, at Tucson, Ariz.

THE RESIGNATION of Dr. D. T. MacDougal as assistant director has brought about a re-organization of work at the New York Botanical Garden. Dr. W. A. Murrill, who has been serving as a curator for parts of two years, having succeeded to the position left vacant by the resignation of Professor F. S. Earle to accept the work of directing the Cuban Agricultural Experiment Station, has been appointed first assistant, and the duties of Mr. Percy Wilson, administrative assistant, have been increased. Dr. C. S. Gager, who has pursued investigations at the garden for some time under the direction of Dr. MacDougal, has been appointed director of the laboratories. Mr. R. S. Williams, who has done much field work on behalf of the garden during the past five years in the Yukon Territory, Bolivia and the Philippine Islands, has been appointed an assistant curator. Mr. C. B. Robinson, who has been a student of the garden, giving special attention to the study of the stone-worts, and to the Philippine Island collections formed by Mr. Williams, has also been appointed an assistant curator.

AT the annual election of the American Philosophical Society, held on January 5, the following officers were elected for the ensuing year:

*President*—Edgar F. Smith.

*Vice-Presidents*—George F. Barker, William B. Scott, Simon Newcomb.

*Secretaries*—I. Minis Hays, Edwin G. Conklin, Arthur W. Goodspeed, Morris Jastrow, Jr.

*Treasurer*—Henry La Barre Jayne.

*Curators*—Charles L. Doolittle, William P. Wilson, Albert H. Smyth.

*Councillors*—Patterson Du Bois, Samuel Dickson, Ernest W. Brown, William Keith Brooks.

DR. WILLIAM JAMES, professor of philosophy, at Harvard University, is at present lecturing at Stanford University, where he will stay until June.

THE fifth lecture in the Harvey Society Course will be given by Professor W. H. Park, at the New York Academy of Medicine, on Saturday, January 20, at 8:30 P.M., his subject being 'A Critical Study of "Serum Therapy." All interested are invited to attend.

DR. E. PFLÜGER, professor of physiology, at Bonn, celebrated, on December 15 the fiftieth anniversary of his doctorate.

DR. MAX HEINZE, professor of philosophy, Leipzig, celebrated, on December 13, his seventieth birthday.

SIR MICHAEL FOSTER and Sir Philip Magnus are candidates for parliament from the University of London.

A COMMITTEE has been formed under the patronage of Prince Bernhard of Saxe-Meiningen for the erection of a memorial of the late Professor von Mikulicz, at Breslau.

A POSITION as computer at the Yerkes Observatory is now vacant. The incumbent, who may be either man or woman, will devote considerable time to measuring and reducing stellar spectrograms, in addition to performing miscellaneous computations. The salary which can be offered at present is fifty dollars per month. Applications should be made to Professor Edwin B. Frost, Williams Bay, Wisconsin.

THE French Association for the Advancement of Science will meet at Lyons, on August 2, under the presidency of M. Lippmann, professor of physics in the Sorbonne.

MR. W. D. D. Crotch has left his residuary estate (some £8,000) to the Museum of Zoology, Oxford University. His brother, Mr. G. R. Crotch, had previously left considerable gifts in collections, books and money, to the same institution.

THE department of entomology of the American Museum of Natural History has received as a gift from William Schaus, Esq., formerly of New York City, a valuable collection of moths embracing some 26,000 speci-

mens, mainly from Mexico, Central America and South America. Four years ago the museum received from the same gentleman a collection of 5,000 butterflies, including many rare specimens from Europe, Asia, Africa, Australia and New Zealand.

SEÑOR TEODORO DEHESA, the governor of Vera Cruz, Mexico, has donated to the Carnegie Museum, Pittsburg, Pa., a Mexican idol, which was regarded as the gem of his archeological collection. The idol was stolen some years ago and finally came into the possession of the Carnegie Museum, which purchased it, without knowing its previous history. When the authorities of the museum discovered the facts, they offered to restore the specimen to its owner, but he has requested them to retain it as his gift.

IT is stated in the London *Times* that Mr. W. O. B. Macdonough, of San Francisco, California, has presented to the trustees of the British Museum the skull and limb bones of the celebrated race horse Ormonde, in the opinion of many good judges the best horse of the nineteenth century. The remains recently arrived in good condition, and are now in the hands of the museum preparator to be mounted for exhibition in the hall of domesticated animals, which already contains specimens of several English thoroughbreds, including the skull of Bend Or, the sire of Ormonde, and the skeleton of Stockwell, of whom he was a lineal descendant.

ANNOUNCEMENT is made by the board of directors of the National Association for the Study and Prevention of Tuberculosis of the preliminary arrangements for the second annual meeting of the association, which will be held in Washington, May 17-19, 1906. Two new sections have been established, one on surgical tuberculosis and the other on tuberculosis in children. The officers of the sections are as follows: Sociological section—chairman, Mr. William H. Baldwin, Washington, D. C.; secretary, Miss Lilian Brandt, New York. Clinical and Climatological section—chairman, Dr. Vincent Y. Bowditch, Boston, Mass.; secretary, Dr. Edwin A. Locke, Boston, Mass. Pathologic and bacteriologic

section—chairman, Dr. Edward R. Baldwin, Saranac Lake, N. Y.; secretary, Dr. Hugh M. Kinghorn, Saranac Lake, N. Y. Section on surgical tuberculosis—chairman, Dr. W. W. Keen, Philadelphia, Pa.; secretary, Dr. Robert G. LeConte, Philadelphia, Pa. Section on tuberculosis in children—chairman, Dr. W. P. Northrup, New York; secretary, Dr. Roland G. Freeman, New York.

THE lectures on tuberculosis at the tuberculosis exposition, to be held in Philadelphia from January 22 to February 3, will be delivered by the following: January 23, Dr. Lawrence F. Flick, 'The Sociological Importance of Tuberculosis'; January 24, Dr. Leonard Pearson, 'State Control of Tuberculosis'; January 25, Dr. Charles Dudley, Altoona, 'The Railroad in Tuberculosis'; January 26, Dr. William B. Stanton, 'Tuberculosis in the School'; January 27, Dr. Howard S. Anders, 'Tuberculosis in the Store'; January 29, Dr. Henry R. M. Landis, 'Tuberculosis in the Workman'; January 30, Dr. Samuel McC. Hamill, 'Tuberculosis in Children'; January 31, Dr. Thomas Darlington, New York City, and Dr. W. M. Late Coplin, 'Municipal Control'; February 1, Dr. Charles J. Hatfield, 'Address to Medical Students and Nurses'; February 2, Drs. James C. Wilson and John H. Musser, 'Address to Physicians,' and February 3, Dr. M. P. Ravenel, 'Hospitals, Sanatoria and Dispensaries.' Demonstrations on pathology will be given from 2 to 6 P.M. daily.

MR. E. H. PLUMACHER, the American consul at Maracaibo, has written the following letter to the assistant secretary of state, under date of December 3.

I should have reported sooner to you about the different convulsions of mother earth in this consular district during the month of November. Excuse circumstances; I was not in a condition to report upon such small affairs, as I had enough to do to save my reputation. We had since the tenth of November two slight ones here but heavy felt in the Andes states. Then we had three sharp convulsions of little duration coming from the southeast.

The days were cloudy and no wind but it was very hot. In day time those shakings are taken rather coolly, but when in night time such freaks of nature occur and you hear the rafters creak

and the tiles on your roof move and your bed shakes it is not exactly pleasant. We had them but without much damage. The damage came from an unexpected quarter. It began to rain from 5 A.M. to 12:30 P.M. in such a style that it seems as if tons of water were thrown upon the country. I marked five and a half inches before 10 o'clock A.M. All our houses were floated, no tile roof after the shaking could stand such a flood. I intended to go to the city anyhow at 8:30 in the morning on horse-back to see to the condition of the consular office in town, but it was impossible; a stream of water six feet high with the rapidity of lightning came down the streets and I knew that was more than horse could cross. There was no communication in town that day, but next day I was at six o'clock in the morning at the office only to find three inches of water in all the rooms, not come by flooding but by leaking roofs; not much damage was done in the office; we can with little expense put everything in first class order. The damage done to property by the water is great. For ten years we had no rain sufficient to serve for the agriculture, not speaking of the suffering people, but now it came down in such an abundance that the poor people can drink once more, sweet fresh rain water. The cisterns are full, everybody can now hope for a good crop and there is water enough for the cattle in the plains and plenty food for them in a short time.

*The Scottish Geographical Journal* gives the following details in regard to the plans of the Mylius Erichsen expedition: The intention is to make a start about the middle of June, 1906, on board the *Denmark*, the party consisting of twenty-one persons, among whom will be a zoologist, a painter, a doctor, a botanist and a biologist. Seventy sledge-dogs and some motor boats are to be taken. The vessel is to be steered for the east coast of Greenland, and it is hoped that a harbor may be found in lat.  $70^{\circ}$ . From this harbor an expedition consisting of twelve men with sledges and dogs will start in March, 1907, for the extreme north, where its members hope to map part of the unknown coast of eastern Greenland. This party is expected to return in July, 1907, and if conditions are favorable it is contemplated that another party may be sent into the interior, or may even attempt to cross the country from east to west in a high latitude, say along the  $70^{\circ}$

or 75th parallel. The expedition is expected to finally return in the summer of 1908, and the sum of £11,000 is given as its probable cost.

#### UNIVERSITY AND EDUCATIONAL NEWS.

MR. N. W. HARRIS, of Chicago, has presented \$25,000 to Northwestern University, to be used as an endowment for an annual series of lectures which are to be delivered by some distinguished man, not a professor of the university, upon the results of his own investigations in scientific, literary, economical or theological problems.

By the will of Andrew J. Dotger, of South Orange, N. J., the Tuskegee Normal and Industrial Institute will, at the death of the testator's wife, receive the residuary estate, said to be about half a million dollars.

WE learn from *Nature* that the University of Bâsle, to which the late Professor Dr. Georg W. A. Kahlbaum was attached for nearly twenty years, has received the sum of 100,000 francs from the mother of the deceased professor. Further, Professor Kahlbaum's scientific library and physical instruments are also to be handed to the university.

THE corporation of Harvard University has decided that students who take more than the required amount of work must in addition to the regular tuition fee of \$150 pay \$20 for each course. If a student wishes to finish his course in three years, he must take up four additional courses.

THE University of Oxford has established a diploma in anthropology, awarding a certificate of merit after written and practical examination at the end of a course of study of not less than a year in residence and under supervision.

THE college entrance examination board will hereafter conduct an examination in zoology. The examiners of the board for 1906 in the sciences are as follows:

*Mathematics*—Professor F. N. Cole, Columbia University; Professor H. S. White, Vassar College; Dr. Arthur Schultze, High School of Commerce, New York, N. Y.

*Physics*—Professor E. L. Nichols, Cornell University; Professor F. C. Van Dyck, Rutgers College; Frank Rollins, Stuyvesant High School, New York, N. Y.

*Chemistry*—Professor H. P. Talbot, Massachusetts Institute of Technology; Professor L. M. Dennis, Cornell University; C. M. Allen, Pratt Institute, Brooklyn, N. Y.

*Geography*—Professor A. P. Brigham, Colgate University; Professor Florence Bascom, Bryn Mawr College; W. H. Snyder, Worcester Academy, Worcester, Mass.

*Botany*—Professor W. F. Ganong, Smith College; Professor Henrietta E. Hooker, Mount Holyoke College; Louis Murbach, Central High School, Detroit, Mich.

THE College of Engineering of the University of Wisconsin announces a list of non-resident lectures for the present year. The lecturers selected include some of the most prominent authorities on special phases of engineering in the country. The lectures are not confined strictly to engineering subjects, but include a consideration of various industrial and commercial problems with which the engineer has to deal, and embrace the greatest possible variety of subjects. The complete program is as follows: Mr. F. B. Wheeler, engineer of the Semet-Solvay Co., Syracuse, N. Y., two lectures, 'Gas Engineering.' Mr. G. M. Davidson, chemist for C. & N. W. Railway, 'Purification of Water for Locomotive Boilers.' Mr. J. M. Faithorn, president of the Chicago Terminal Transfer Co., 'Regulation of Railroad Freight Rates.' Mr. B. A. Behrend, chief engineer of Bullock Manufacturing Co., 'High Speed in Modern Engineering.' Mr. S. Wyer, consulting engineer, Columbus, O., two lectures, 'Gas Producers and Producer Gas.' Mr. L. R. Clauson, U. W. '97, signal engineer of C. M. & St. P. Railway Co., 'Railroad Signaling.' Mr. Ralph Modjeski, consulting bridge engineer, Chicago, 'The New Thebes Bridge over the Mississippi near St. Louis.' Mr. Arthur B. Wheeler, president of the Chicago Telephone Co., subject to be announced later. Professor L. P. Breckenridge, College of Engineering, University of Illinois, 'The Use of Bituminous Coal in Boiler Furnaces.' Mr. Andrews Allen, U. W. '91, construction engineer, Chicago, 'Engineering Construction.' Mr. Frank Skinner, assistant editor of *Engineering Record*, probably several lectures on 'Bridge Construction.'